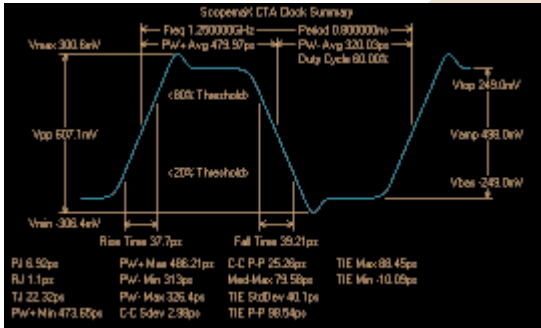
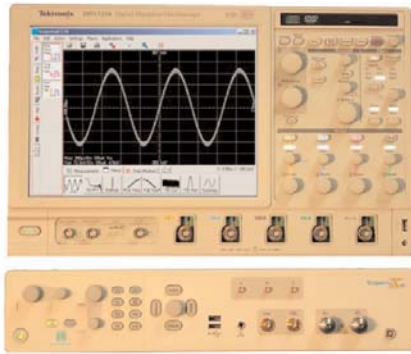


Perform All Typical Clock Measurements With CTA



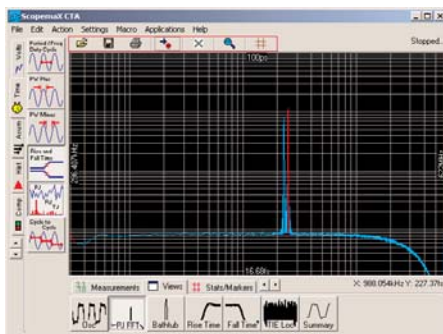
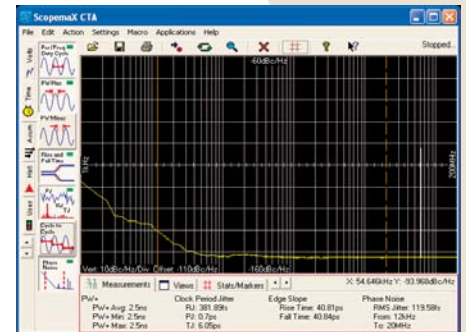
Summary View
See All Results in One View
Save or Print one sheet



Direct Time Measurement
"Shows effects other tools cannot"

- Includes Advanced Jitter Analysis
 - RJ, DJ, TJ
 - Accumulated Jitter
 - Cycle to Cycle
 - TIE
 - Histograms
- Provides Typical Timing Parameters
 - Period, Frequency
 - PW+/-, Duty Cycle
 - Rise/Fall
- Detailed Oscilloscope Views
 - Fine Detail
 - Voltage and Time Histograms
- Provides Typical Voltage Parameters
 - Vp-p, RMS, Vmid
 - Vtop, Vbottom, Vavg
- Strip Chart Any Value

- Phase Noise
 - Integrated RMS
 - Smoothing
 - Spur Removal



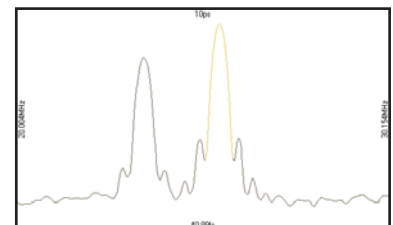
- **CTA** Frequency view shows only the spectral content of jitter, not of the entire signal
 - Easily identify spurs, even adjacent ones
- No notch filtering needed
 - No unexpected removal of content
- The noise floor is extremely low, below 100fs
- The amplitude of spikes or spurs are shown in ps, not dB
 - Useful for comparing results to other scope views

Easily See

- Crosstalk
- EMI Interference
- Power Supply Noise
- Interference From Clocks
- PLL Multiplier Issues

Zoom in to see detail

- Fine, Constant Resolution
- Resolve Adjacent Spurs
- Easier to Use Than a Spectrum Analyzer



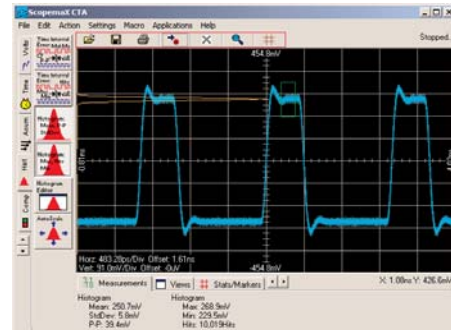
"Helps you determine if jitter components are really a problem"

ScopemaX™ CTA Actually Measures Time

- **Signal Fidelity of a Sampling Oscilloscope**
 - Waveform Not Distorted
- **Continuous Record of a Real-Time Oscilloscope**
- **Precise Time Measurement of a TIA**
 - Directly Measures Time at Crossing Point
 - No Interpolation
- **Includes Industry Standard Wavecrest™ Jitter Analysis**
 - Assures Good Repeatable Results
- **True Differential Input**
- **Two Measurement Circuits**
 - One Measures Time
 - One Measures Voltage

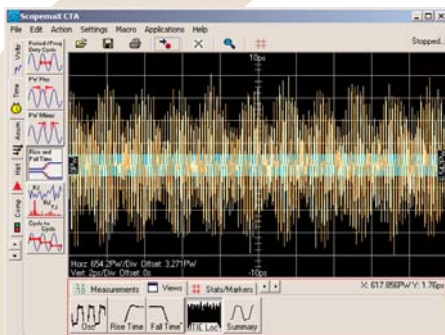
Voltage Sampling

- 15 GHz Bandwidth
- Autoscales To Signal
- Used For All Voltage Measures
- High Resolution / Detail
- Voltage Histograms, P-P, RMS, Etc



Actual results from voltage sampler

Jitter is a timing error
Use an instrument that measures time!



Actual results from timing circuits

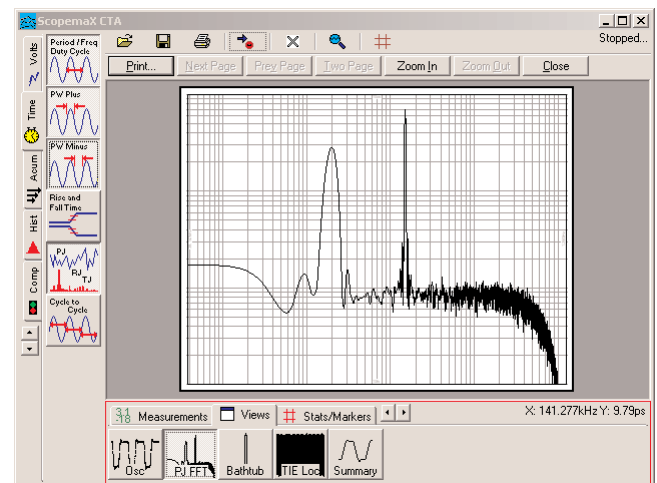
Patented Timing Circuits

- Real-Time Jitter Record
 - Shows Consecutive Edges
- Used For All Timing & Jitter Tests
- Actually Measures Edge Timing
 - Femtosecond Hardware Resolution
- No Interpolation Needed
- No Errors Due to Scaling
- Very Low Noise
 - RJ below 500fs
 - PJ below 100fs
 - TJ @ 10E-12 Below 10ps

Easy To Use Software

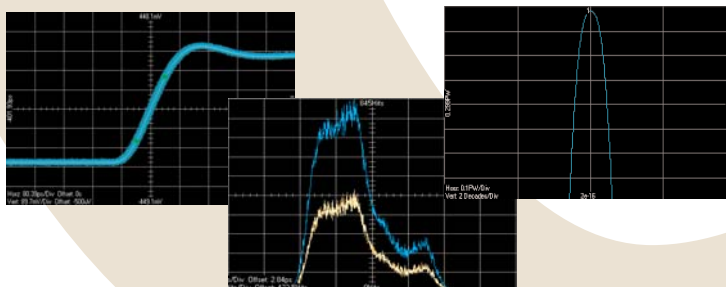
- Powerful easy to use interface with point and click controls
- Unified interface independent of scope manufacturer
- Software runs standalone on any PC in "Reader" mode
- Innovative continuous Auto-Scale feature eliminates annoying twisting and turning of scope dials

Tabs and buttons to select results



Live views on buttons

- See signal changes on every view at once
- Press to transfer to large view
- Print preview is live



ScopemaX™ CTA Is a Hardware and Software Solution

The ScopemaX hardware actually takes all of the measurements on your signals. It passes information about these signals into the memory of the host oscilloscope which runs CTA software. The CTA software displays and analyzes the signals giving you all of the results you need.

Use with any 10Gs/sec or faster real time scope

USB Connection
Allows CTA software to control hardware

CTA Software
Runs directly on Windows based scopes.

Host Oscilloscope

- Stores signal info in fast memory
- Runs CTA analysis software
- Displays results on screen
- Does Not measure signal

Cables between boxes
Passes digital information to scope memory via scope inputs using patent-pending CCR

ScopemaX Hardware

- Actually **measures** signals
- Samples voltages
- Measures every edge



Works with many popular scopes including, but not limited to:

- Agilent 54845
- Agilent 54855
- Agilent DSA91304A
- Tektronix DPO7254
- Tektronix DSA70804B
- Tektronix 7404
- Tektronix TDS6604
- Tektronix TDS6804
- Tektronix 694C
- LeCroy 6000
- LeCroy 7300
- Rohde&Schwarz RTO1024



Agilent



LeCroy



Tektronix

Inputs
Differential or Single-Ended

ScopemaX has a true differential input

- Waveform math not needed
- No scope input skew errors
- Measures time at crossing points

Available Options:

- Probe Power for Agilent Infiniimax Probes
 - Provides power for probe using connector on front of ScopemaX
 - Optional probe connection kit includes cabling & adapters
- Extended Data Rate Option
 - Multiplexes digital output to third channel of scope
 - Increases maximum input signal rate
 - (See individual scope performance sheet for typical improvement)
- GPIB Option
 - Adds GPIB connector and software support for remote operation



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ScopemaX performance stated in this brochure covers the majority of oscilloscope families. Performance with a small number of oscilloscopes may differ due to their unique sampling rates and bandwidths.

Specifications subject to change without notice
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